



Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
TRANSCRIPTIONAL REGULATORY SEQUENCES
Inventor: Chao YU et al.
Application No.: 09/814,292
Docket No.: 348022001500

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FIG. 1A

TCGATAGGTA 1	CCCACTATAG	GGCACGCGTG	GTCGACGGCC	CGGGCTGGTC 50
TGGCAACTTC 51	AAGTGTGGGC	CTTTCAGACC	GGCATCATCA	GTGTTACGGG 100
GAAGTCACTA 101	GGAATGCAGA	ATTGATTGAG	CACGGTGGCT	CACACCTGTA 150
ATCCCAACAC 151	TCTGGGAGGC	CAAGGCAGGT	GGATCACTTG	TGGTCAGGAG 200
TTTGAGACCA 201	GCCTGGCCAA	CATGGTGAAA	CCTCATCTCT	ACTAAAAATA 250
CAAAAATTAG 251	CTGGGAATGG	TGGCACATGC	CTATAATCCC	AGTTACTCAG 300
GAGGCTGAGG 301	CAGGAGAATC	ATTTGAACCT	GGGAGGCAGA	GGTTGCAGTG 350
AGCCGAGATC 351	ACGCCACTGC	ACTCCAGCCT	GGGTGACACA	GCGAGACTCT 400
GTCTCAAAAA 401	AAAAAAAATG	CAGAATTTCA	GGCTTCACCC	CAGACCCACT 450
GCATGACTGC 451	ATGAGAAGCT	GCATCTTAAC	AAGATCCCTG	GTAATTCATA 500
CGCATATTAA 501	ATTTGGAGAT	GCACTGGCGT	AAGACCCTCC	TACTCTCTGC 550
TTAGGCCCAT 551	GAGTTCTTCC	TTTACTGTCA	TTCTCCACTC	ACCCCAAAC 600
TTGAGCCTAC 601	CCTTCCCACC	TTGGCGGTAA	GGACACAACC	TCCCTCACAT 650
TCCTACCAGG 651	ACCCTAAGCT	TCCCTGGGAC	TGAGGAAGAT	AGAATAGTTC 700
GTGGAGCAAA 701	CAGATATACA	GCAACAGTCT	CTGTACAGCT	CTCAGGCTTC 750

APPROVED	O.G. FIG.	
BY	CLASS	SUBJECT
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FIG. 1B

TGGAAGTTCT 751	ACAGCCTCTC	CCGACAAAGT	ATTCCACTTT	CCACAAGTAA 800
CTCTATGTGT 801	CTGAGTCTCA	GTTTCCACTT	TTCTCTCTCT	CTCTCTCTCT 850
CAACTTTCTG 851	AGACAGAGTT	TCACTTAGTC	GCCCAGGCTG	GAGTGCAGGG 900
GCACAATCTC 901	GGCTCACTGC	AACCTCCACC	TCCTGGGTTC	AAGTGTTTCT 950
CCTGTCTCAG 951	CCTCCCGAGT	AGCTGGGATT	ACAGGCACAC	ACCACCGCGT 1000
TAGTTTTTGT 1001	ATTTTTGGTA	GAGATGGTGT	TTGCCCATAT	TGGCCAGGCT 1050
GATCTCGAAC 1051	TCCTGACCTC	AGGTGATCCG	CCCACCTCGG	CCTCCCAAAG 1100
TGCTGGGATT 1101	ACAGGCATGA	GCCACCACGC	CCGGCTGATC	TCTTTTCTAT 1150
TTTAATAGAG 1151	ATCAAACCTCT	CTGTGTTGCC	TAGGCTGGTC	TTGAACTCCT 1200
GGCCTCGAGT 1201	GATCCTCCCA	CCTTGGCCTC	CCAAAGTGTT	GAGATTACAG 1250
GCATGAGCCA 1251	CTGTGCCTGG	CCTCAGTTCT	ACTACAAAAG	GAAGCCAGTA 1300
CCAGCTACCA 1301	CCCAGGGTGG	CTGTAGGGCT	ACAATGGAGC	ACACAGAACC 1350
CCTACCCAGG 1351	GCCCGGAAGA	AGCCCCGACT	CCTCTCCCCT	CCCTCTGCCC 1400
AGAACTCCTC 1401	CGCTTCTTTT	TGATGTAGCC	CAGGGCCGGA	GGAGGCAGTC 1450
AGGGAAGTTC 1451	TGTCTCTTTT	TCATGTTATC	TTACGAGGTC	TCTTTTCTCC 1500

APPROVED	O.G. FIG.	
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FIG. 1C

ATTCTCAGTC 1501	CAACAAATGG	TTGCTGCCCA	AGGCTGACTG	TGCCCCACCCC 1550
CAACCCCTGC 1551	TGGCCAGGGT	CAATGTCTGT	CTCTCTGGTC	TCTCCAGAAG 1600
TCTTCCATGG 1601	CCACCTTCGT	CCCCACCCTC	CAGAGGAATC	TGAAACCGCA 1650
TGTGCTCCCT 1651	GGCCCCCACA	GCCCCTGCCT	CTCCCAGAGC	AGCAGTACCT 1700
AAGCCTCAGT 1701	GCACTCCAAG	AATTGAAACC	CTCAGTCTGC	TGCCCCTCCC 1750
CACCAGAATG 1751	TTTCTCTCCC	ATTCTTACCC	ACTCAAGGCC	CTTTCAGTAG 1800
CCCCTTGGAG 1801	TATTCTCTTC	CTACATATCA	GGGCAACTTC	CAAACATCATC 1850
ACCCTTCTGA 1851	GGGGTGGGGG	AAAGACCCCC	ACCACATCGG	GGGAGCAGTC 1900
CTCCAAGGAC 1901	TGGCCAGTCT	CCAGATGCCC	GTGCACACAG	GAACACTGCC 1950
TTATGCACGG 1951	GAGTCCCAGA	AGAAGGGGTG	ATTTCTTTCC	CCACCTTAGT 2000
TACACCATCA 2001	AGACCCAGCC	AGGGCATCCC	CCCTCCTGGC	CTGAGGGCCA 2050
GCTCCCCATC 2051	CTGAAAAACC	TGTCTGCTCT	CCCCACCCCT	TTGAGGCTAT 2100
AGGGCCCAAG 2101	GGGCAGGTTG	GA CTGGATTG	CCCTCCAGCC	CCTCCCGCCC 2150
CCAGGACAAA 2151	ATCAGCCACC	CCAGGGGCAG	GGCCTCACTT	GCCTCAGGAA 2200
CCCCAGCCTG 2201	CCAGCACCTA	TTCCACCTCC	CAGCCCAGCA 2239	

APPROVED	O.G. FIG.	
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FIG. 2A

CTCGAGGATCTCGGCCCTCTTTCTGCATCCTTGTCTAAATCATTTTCAT
1 50

ATCTTGCTAGACCTCAGTTTGAGAGAAACGAACCTTCTCATTTTCAAGTT
51 100

GAAAAAAAAAAGAGGTTCAAAGTGGCTCACTCAAAGTTACAAGCCAACAC
101 150

TCACCACTACGAGTACAATGGCCACCATTAGTGCTGGCATGCCCCAGGAG
151 200

ACAGGCATGCATATTATTCTAGATGACTGGGAGGCAGAGGGGTGGCCTAG
201 250

TGAGGTCAGACTGTGGACAGATCAGGCAGATGTGGGTCTGATCCCAATT
251 300

CCTCAGGCCGCAGAACTACTGTGGTTCAAGAAGGGGACAAAAGGACTGCA
301 350

GTCCGGAACAGGAGGTCCATTTGAGAGCTGACTGAGCAGAAGAGGAAAGT
351 400

GAAGAACTTCTGGGGCAAGAGCTTACCCTACTTTACAGCTTTGTTGTCTT
401 450

CTTTACTCCAGGGGCGTCCCTGGTACTCAGTAAATGTCTGTTGGCTTGAG
451 500

GAACATATGTGTAAGGAGGAAGGAGAGGGAACTTGAGGGAGTTAAGACTC
501 550

AAGAATCAATCAAGGAGAGGACAGCAGAGAAGACAGGGTTTGGGAGAGAG
551 600

ACTCCAGACATTGGCCCTGGTTCCCTTCTTGGCCACTGTGAAACCCTCCA
601 650

GAGGAACTGAGTGCTGTGGCTTTAAATGATCTCAGCACTGTCAGTGAAGC
651 700

GCTCTGCTCAAAGAGTTATCCTCTTGCTCCTGTGCCGGGGCCTCCCCCTC
701 750

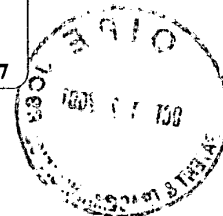
CTCTCAGCTCCCAAACCCTTCTCAGCCACTGTGATGGCATAATTAGATGC
751 800

GAGAGCTCAGACCGTCAGGTCTGCTCCAGGAACCACCCATTTTCCCCAAC
801 850

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BY	CLM
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FIG. 2B

CCCAGAGAAAGGTCCTAGTGGAAGTGGGGGCCACTGAAGGGCTGATGG
 851 900
 GGTTCTGTCCTTTCCCCCATGCTGGGTGGACTTAAAGTCTGCGATGTGTG
 900 950
 TAGGGGGTAGAAGACAACAGAACCTGGGGGCTCCGGCTGGGAGCAGGAGG
 951 1000
 AACTCTCACCAGACGATCTCCAAATTTACTGTGCAATGGACGATCAGGAA
 1001 1050
 ACTGGTTCAGATGTAGCTTCTGATACAGTGGGTCTGAGGTAAAACCCGAA
 1051 1100
 ACTTAATTTCTTCAAAAATTTAAAGTTGCATTTATTATTTTATATGTGT
 1101 1150
 GCCCATATGTGTGCCACAGTGTCTATGTGGAGGTCAGAGGGCAAGTTGTG
 1151 1200
 GGCATTGGCTCTCTCCTTTCATAATGTGGCTTCTGGGGACCAAATGTCA
 1201 1250
 GGCATGGTGGCAAGAGCTTTTACCTGTTGAGCCATCTCATGGTTTCGTAA
 1251 1300
 AACTTCCTATGACGCTTACAGGTAACGCAGAGACACAGACTCACATTTGG
 1301 1350
 AGTTAGCAGATGCTGTATTGGTGTAACACTCATACACAGACACACACAC
 1351 1400
 ATACTCATACACACACACACACTTATCACATGCACACACATACTCGTA
 1401 1450
 TACACACAGACACACACACATGCACTCTCACATTCACATATTCATACACA
 1451 1500
 TCCACACACACTCATCCACACACACAGACACACATACTCATCCACACA
 1501 1550
 CACACACACATACTCATACACACACACAGACACACATACTCATACACA
 1551 1600
 CACACAGACACACACATATAATCATACATACACAGACACACTCATACATG
 1601 1650
 TGCACACACACTCATCCACACACACACTCATACACACACACTCA
 1651 1700

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FIG: 2C

TACACACACACTCATACACACACACGAGGTTTTTCTCAGGCTGCCT 1750
 1701

TTGGGTGGAGACTGGAAGTATTCTGTTTTTCAGCTCCTTGGCTTTTTG 1800
 1751

TCCCTTTAGATGAGATCTCCTCCTCACTTTACACACAGAAAGATCACACA 1850
 1801

CGAGGGAGAACTGGCGGTGCGGAAGAGGGCTACACGGTAGGGTGTGAGG 1900
 1851

TCAGGAGATCTTCCTGGCAAGTCTCAAACCTCCACATAGCACAGTGTTTA 1950
 1901

CGTGAGGATTTAGGAGGAATCAGGAAGAGGATTGGTTTACTGCAGAGCAG 2000
 1951

ACCATATAGGTCCACTCCTAAGCCCCATTGAAATTAGAAGTGAGACAGT 2050
 2001

GTGGGATAAAAAGAGCAGATCTCTGGTCACATTTTAAAGGGATATGAGG 3000
 2051

GTCTGTGCCTTTAAGCCTTCCCATCTCCCTCCAATCCCCCTCACCTTC 2150
 2101

CCCACCCTAACCTCCCCAGGTTTCTGGAGGAGCAGAGTTGCGTCTTCTC 2200
 2151

CCTGCCCTGCCGAGCTGCTCACTGGCTGCTCTAGAGGCTGTGCTTTGCGG 2250
 2201

TCTCCATGGAAACCATTAGTTGCTAAGCAACTGGAGCATCATCTGTGCTG 2300
 2251

AGCTCAGGTCCTATCGAGTTCACCTAGCTGAGACACCCACGCCCCCTGCAG 2350
 2301

CCACTTTGCAGTGACAAGCCTGAGTCTCAGGTTCTGCATCTATAAAAACG 2400
 2351

AGTAGCCTTTTCAGGAGGGCATGCAGAGCCCCCTGGCCAGCGTCTAGAGGA 2450
 2401

GAGGTGACTGAGTGGGGCCATGTCACTCGTCCATGGCTGGAGAACCTCCA 2500
 2451

TCAGTCTCCAGTTAGCCTGGGGCAGGAGAGAACCAGAGGAGCTGTGGCT 2550
 2501

APPROVED	O.G. FIG.	
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FIG. 2D

GCTGATTGGATGATTACGTACCCAATCTGTTGTCCCAGGCATCGAACCC
 2551 2600

CAGAGCGACCTGCACACATGCCACCGCTGCCCCGCCCTCCACCTCCTCTG
 2601 2650

CTCCTGGTTACAGGATTGTTTTGTCTTGAAGGGTTTTGTTGTTGCTACTT
 2651 2700

TTTGCTTTGTTTTTTCTTTTTTAACATAAGGTTTCTCTGTGTAGCCCTAG
 2701 2750

CTGTCTGGAACTCACTCTGTAGACCAGGCTGGCCTCAAACCTCAGAAATC
 2751 2800

CACCTTCCTCCCAAGTGCTGGGATTAAAGGCATTTCGCACCATCGCCCAGC
 2801 2850

CCCCGGTCTTGTTTCCTAAGGTTTTCTGCTTTACTCGCTACCCGTTGCA
 2851 2900

CAACCGCTTGCTGTCCAAGTCTGTTTGTATCTACTCCACCGCCCACTAGC
 2901 2950

CTTGCTGGACTGGACCTACGTTTACCTGGAAGCCTTCACTAACTTCCCTT
 2951 3000

GTCTCCACCTTCTGGAGAAATCTGAAGGCTCACACTGATACCCCTCCGCTT
 3001 3050

CTCCAGAGTCGCAGTTTCTTAGGCCTCAGTTAAATACCAGAATTGGATC
 3051 3100

TCAGGCTCTGCTATCCCCACCCTACCTAACCAACCCCTCCTCTCCCATC
 3101 3150

CTTACTAGCCAAAGCCCTTTCAACCCTTGGGGCTTTTCCTACACCTACAC
 3151 3200

ACCAGGGCAATTTTAGAACTCATGGCTCTCCTAGAAAACGCCTACCTCCT
 3201 3250

TGGAGACTGACCCTCTACAGTCCAGGAGGCAGACACTCAGACAGAGGAAC
 3251 3300

TCTGTCCTTCAGTCGCGGGAGTTCCAGAAAGAGCCATACTCCCTGCAGA
 3301 3350

GCTAACTAAGCTGCCAGGACCCAGCCAGAGCATCCCCCTTTAGCCGAGGG
 3351 3400

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 2E

CCAGCTCCCCAGAATGAAAAACCTGTCTGGGGCCCCTCCCTGAGGCTACA
 3401 3450

GTCGCCAAGGGGCAAGTTGGACTGGATTCCCAGCAGCCCCTCCCACTCCG
 3451 3500

AGACAAAATCAGCTACCCTGGGGCAGGCCTCATTGGCCCCAGGAAACCCC
 3501 3550

AGCCTGTCAGCACCTGTTCCAGGATCCAGTCCCAGCGCAGTA
 3551 3592

APPROVED	O.G. FY
BY	CLASS
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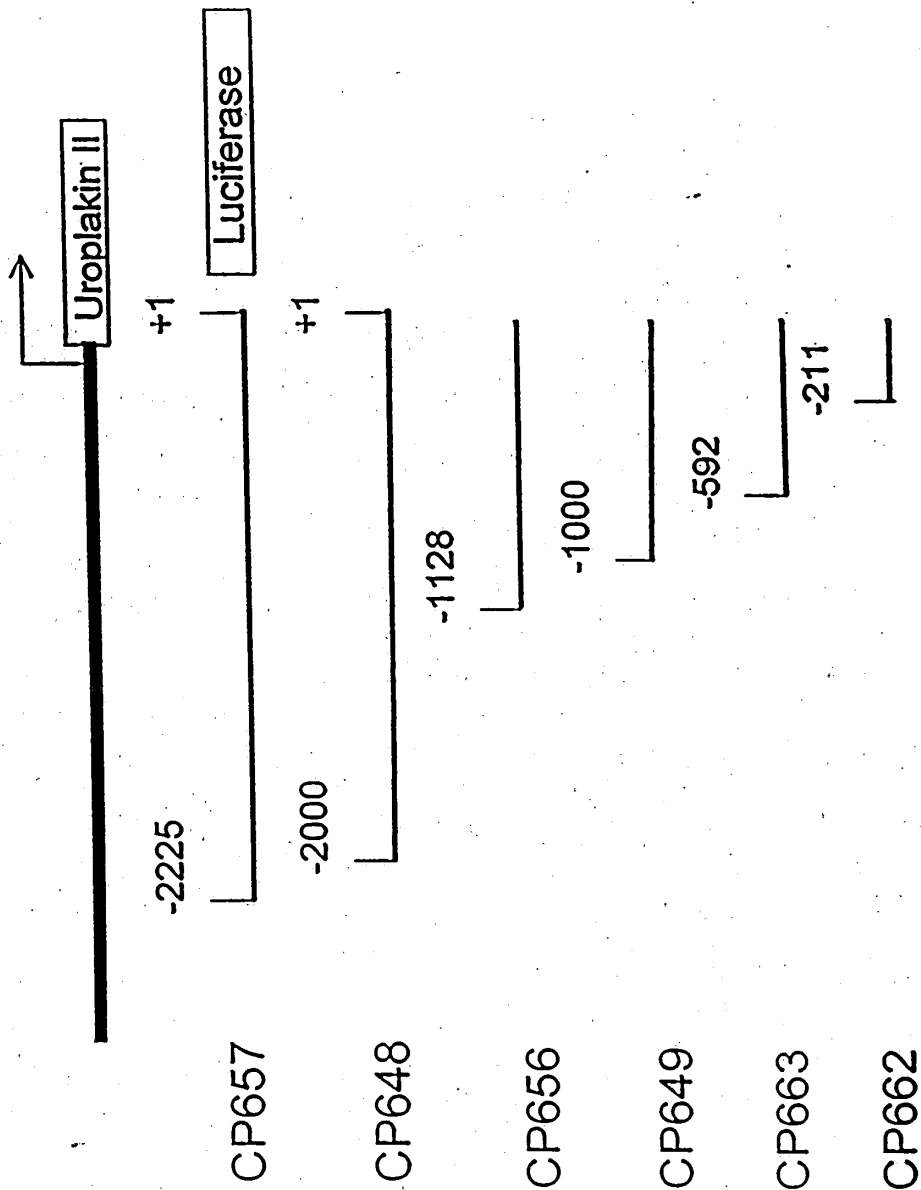
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 Inventor: De-Chao YU et al.
 Application No.: 09/814,292
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Figure 3A



APPROVED	O.G. FIG.	
BY	CLASS	SUB
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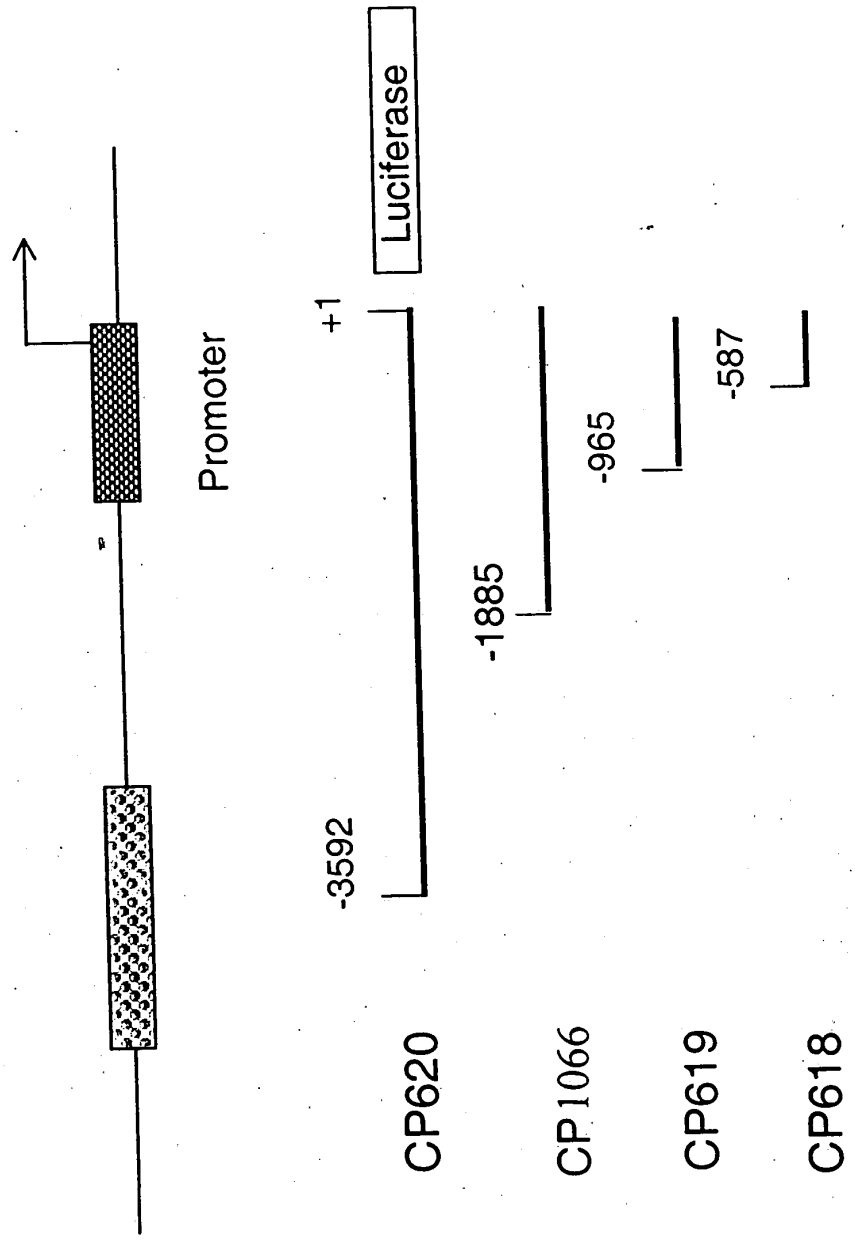
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Figure 3B



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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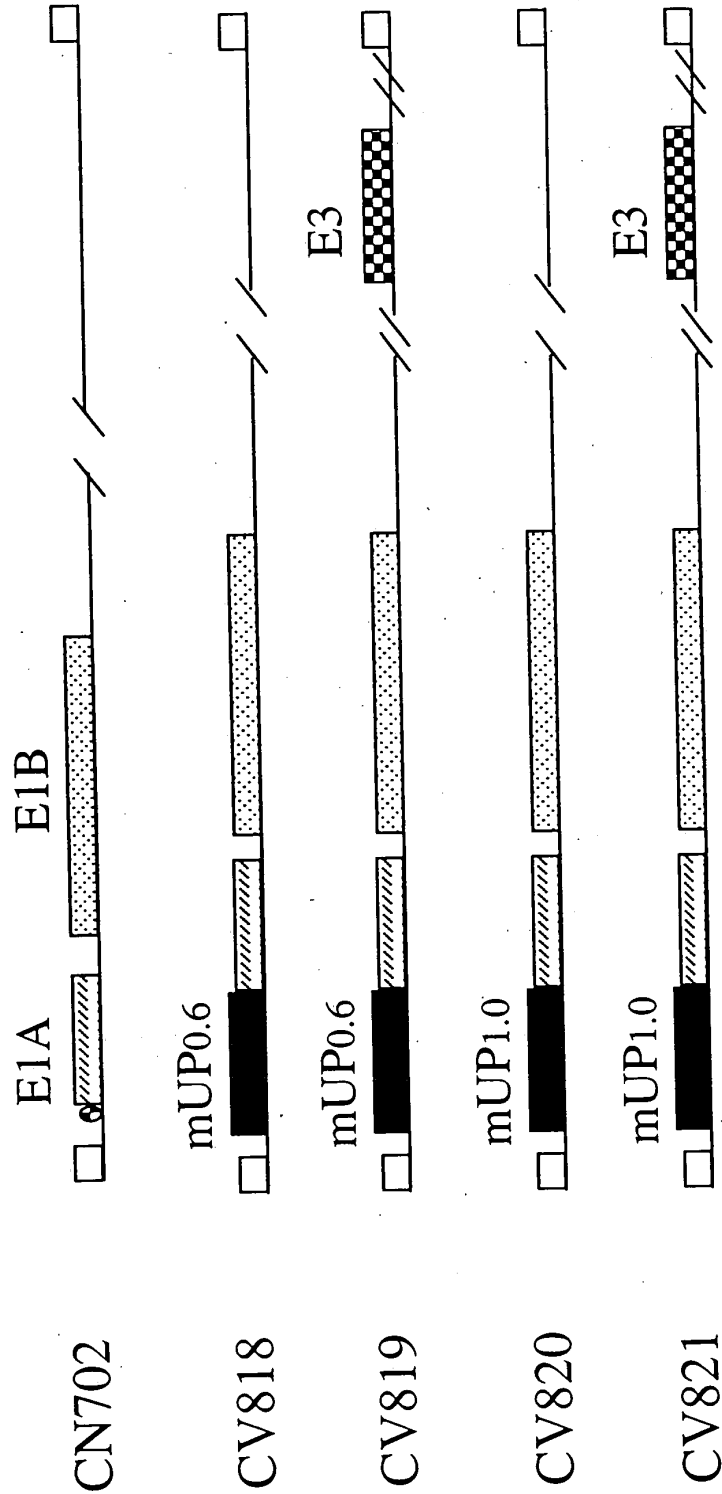
Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
TRANSCRIPTIONAL REGULATORY SEQUENCES
Inventor: De-Chao YU et al.
Application No.: 09/814,292
Docket No.: 348022001500

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Figure 4A



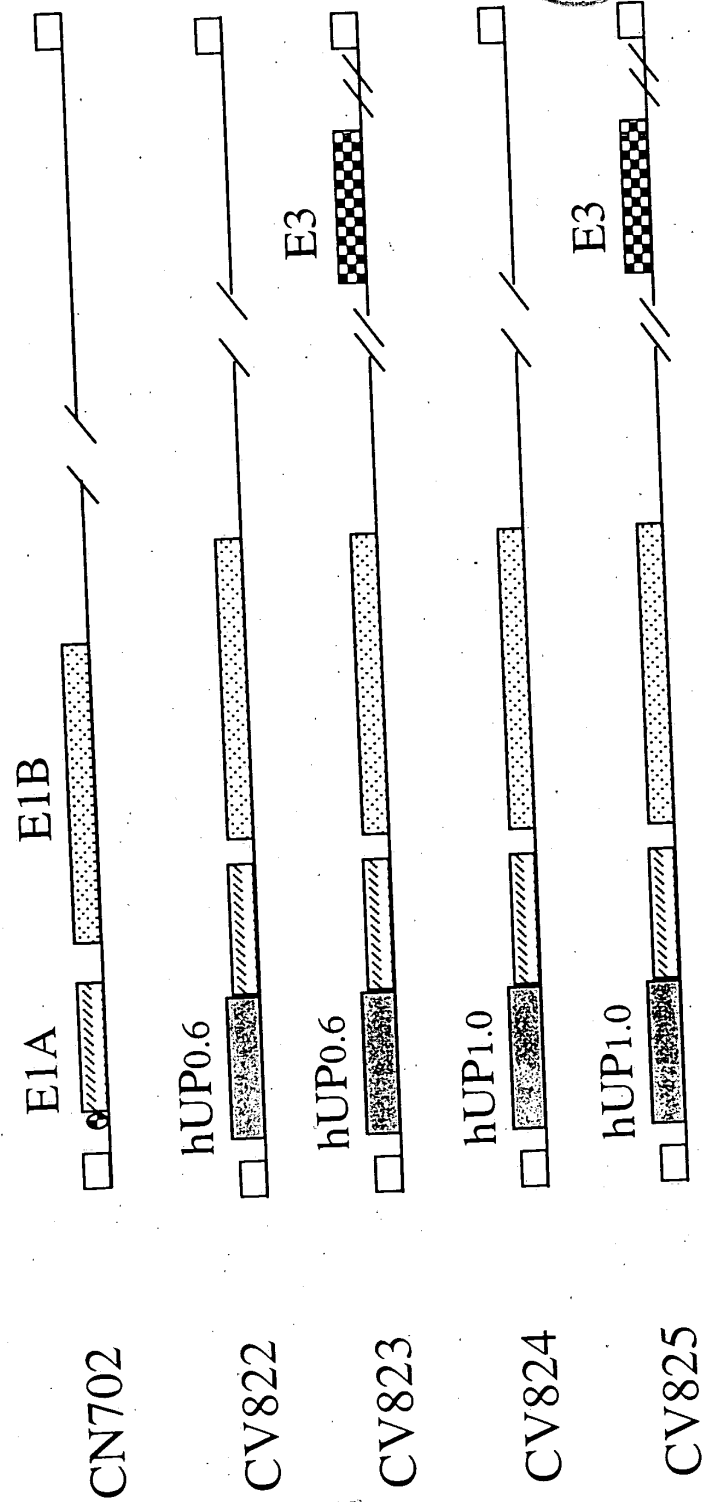
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
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Figure 4B



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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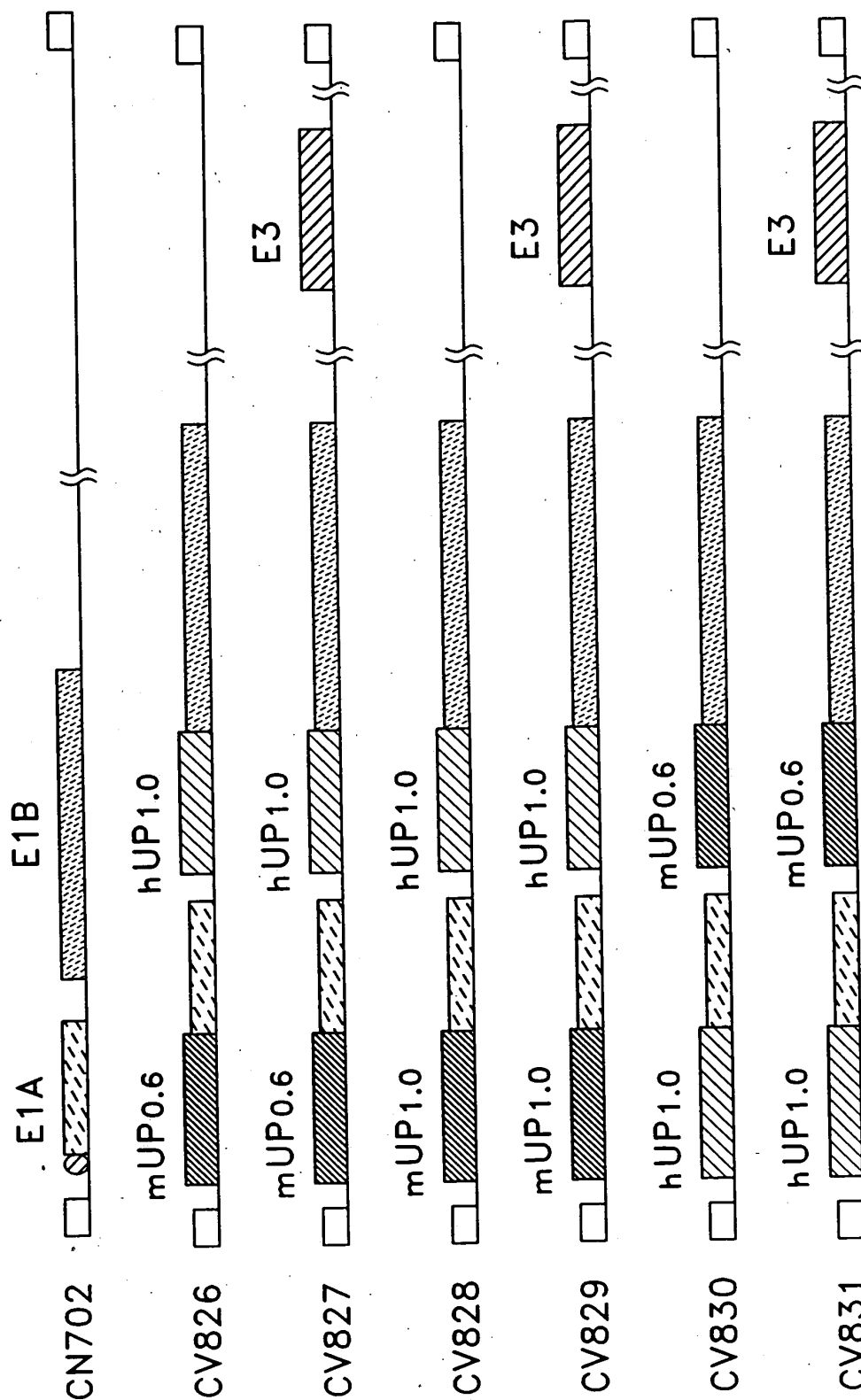
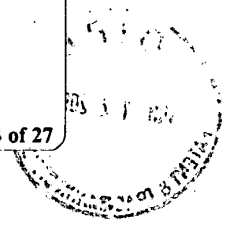


Figure 4C



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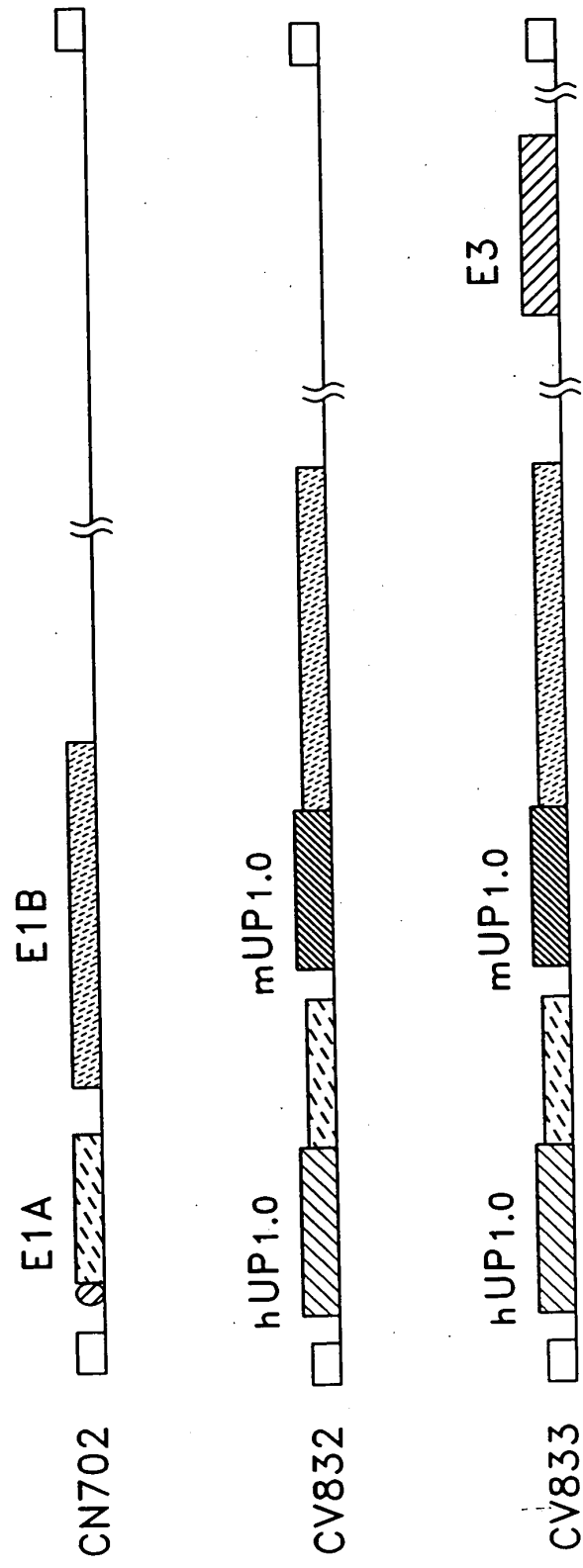


Figure 4D

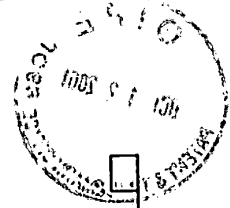
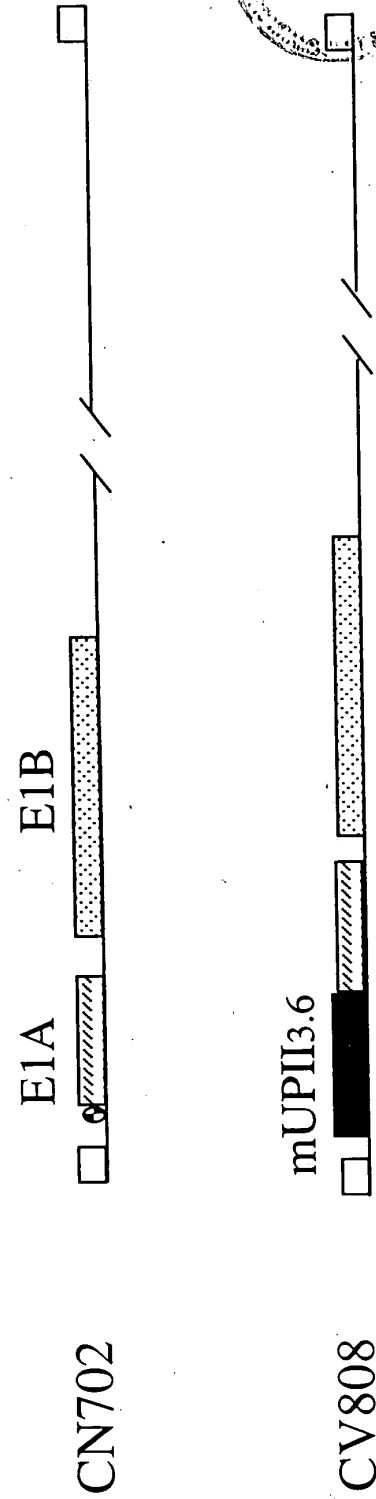
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

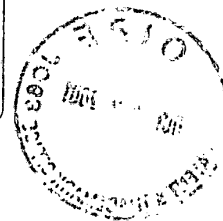
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Figure 4E





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Structure of CV876, CV882 and CV884

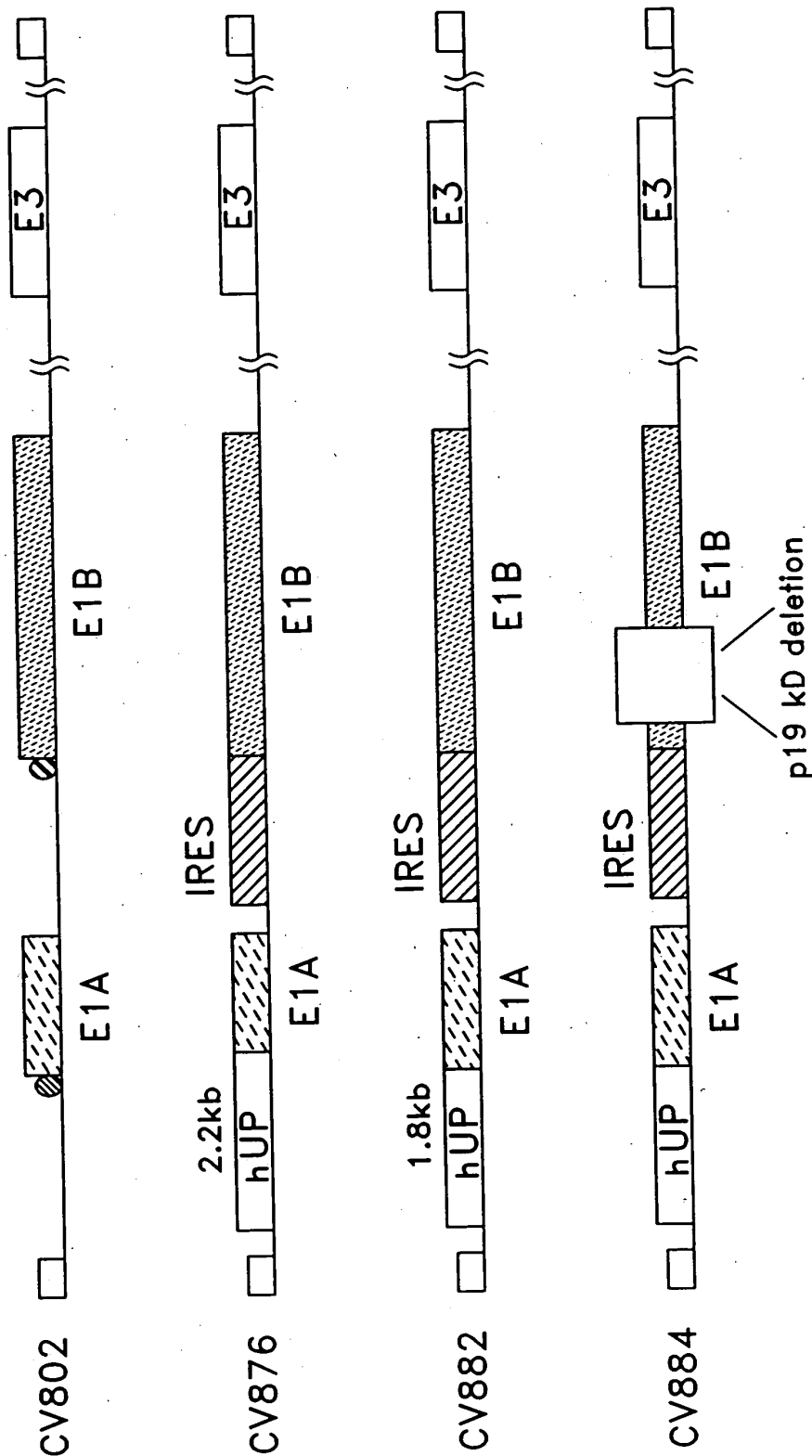
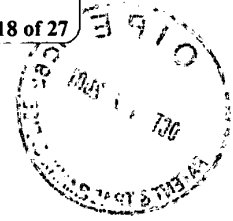


Figure 4G



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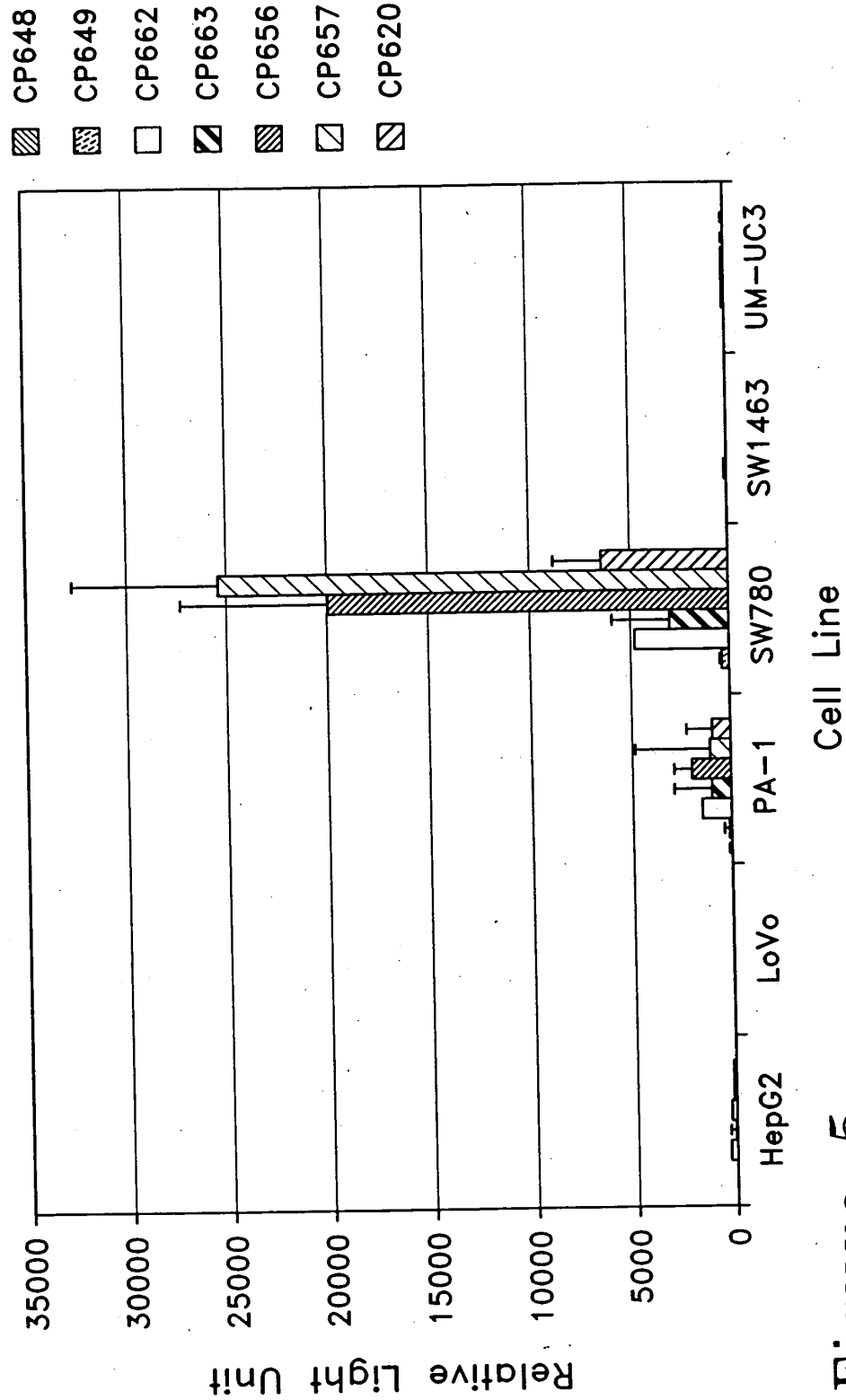


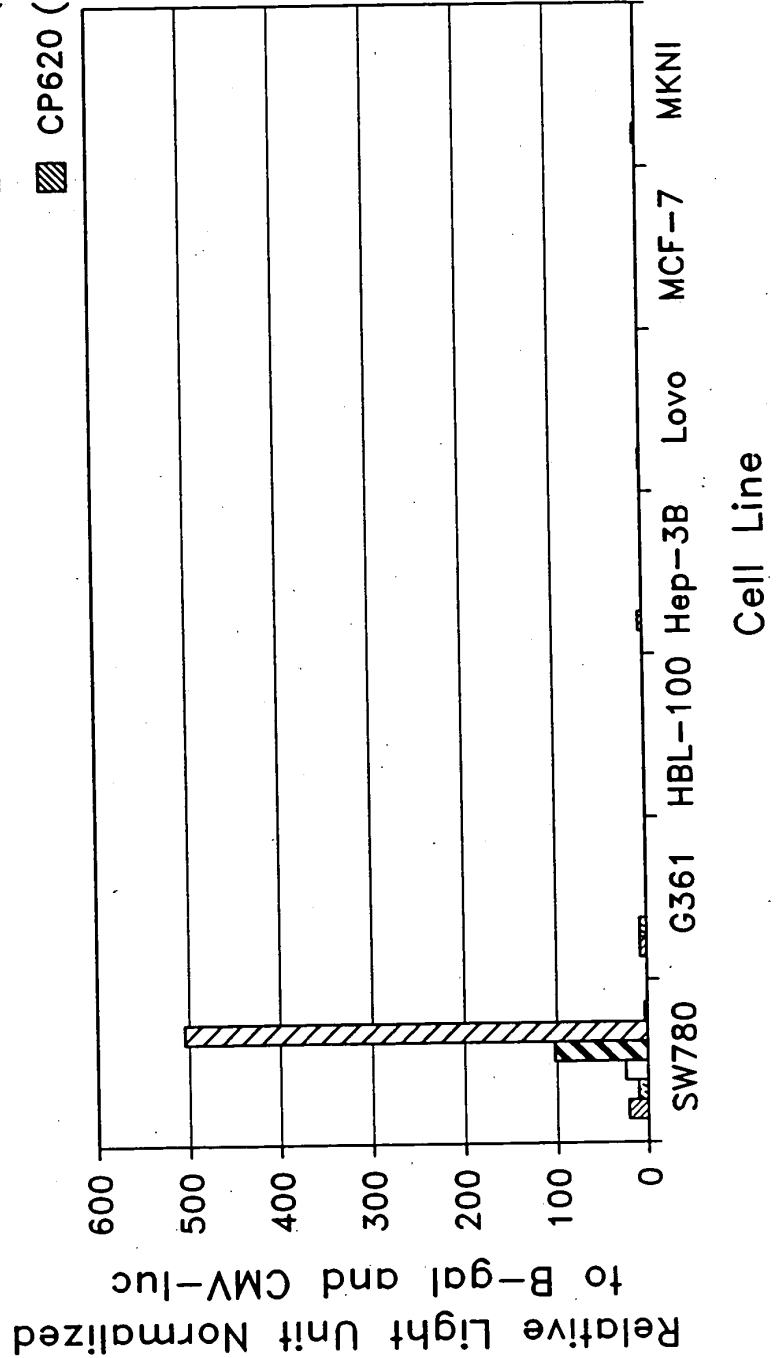
Figure 5



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- CP618 (0.6kb mUPII)
- CP619 (1kb mUPII)
- CP1066 (2kb mUPII)
- CP656 (1kb hUPII)
- CP657 (2.2kb hUPII)
- CP620 (3.6kb mUPII)

Bladder Specificity of
Mouse/Human Uroplakin II Promoters
Luciferase Assay



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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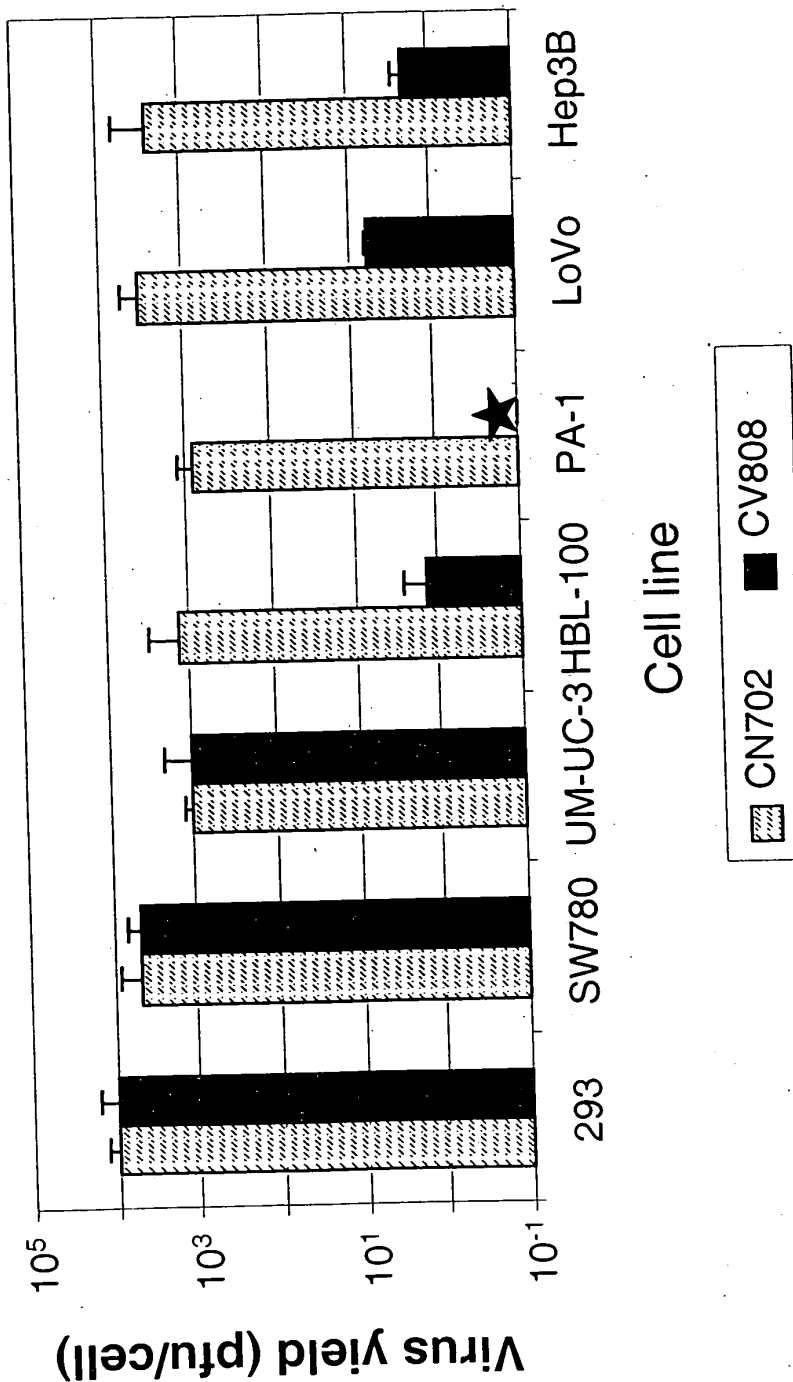
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Figure 8



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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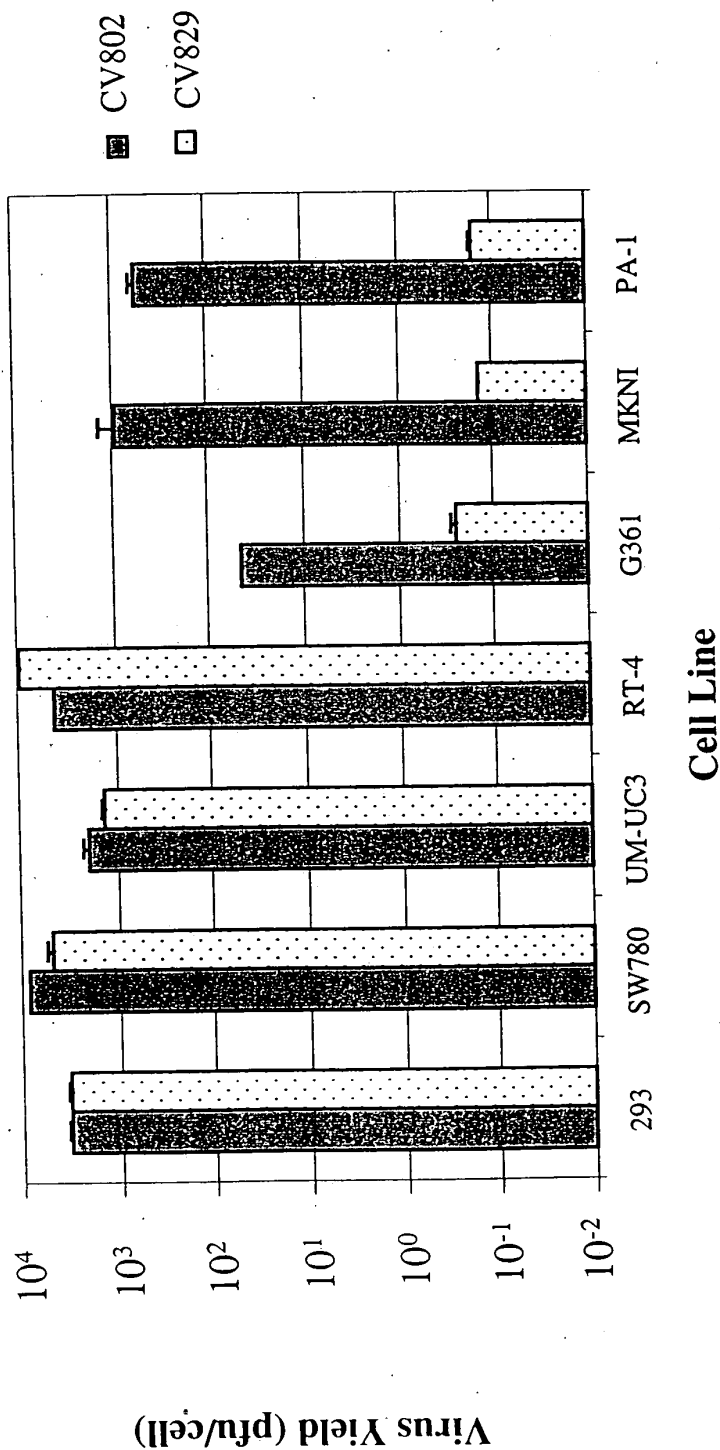
Title: HUMAN UROTHELIAL CELL SPECIFIC.UROPLAKIN
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Figure 9



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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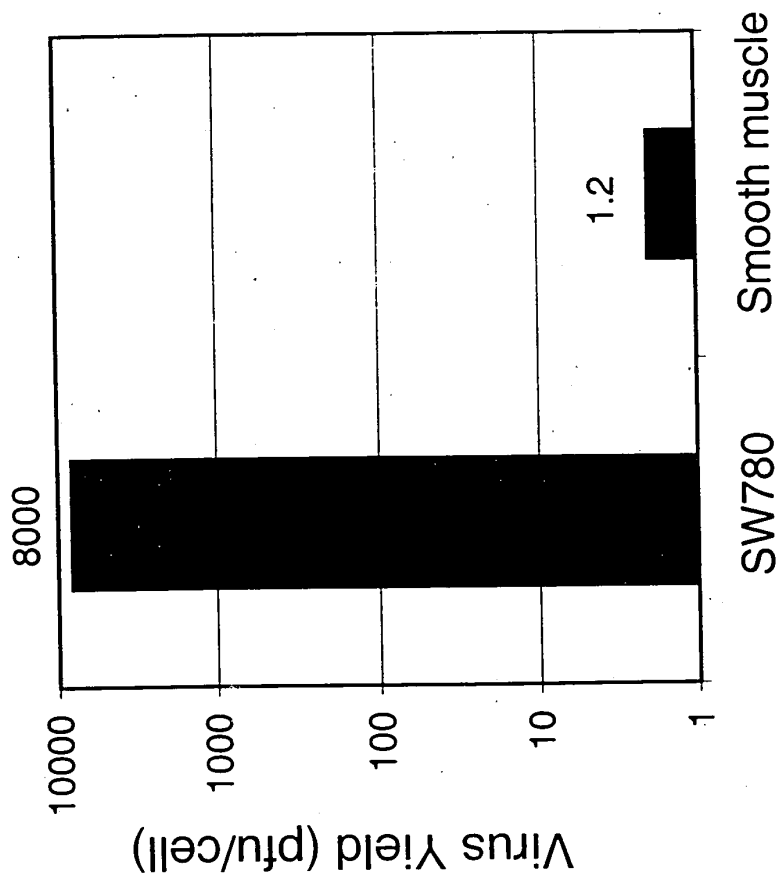
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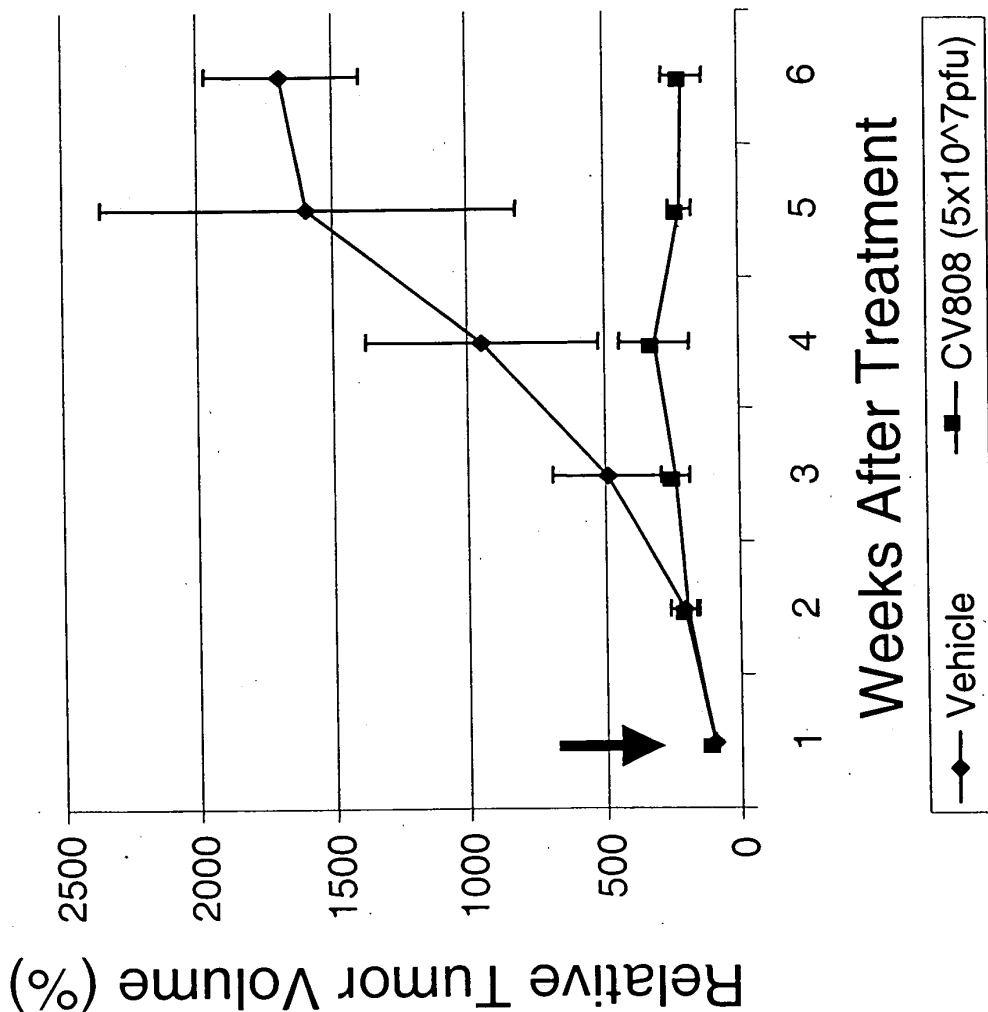
Figure 10





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Figure 11



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 12

G ATG ACC GGC TCA ACC ATC GCG CCC ACA ACG GAC TAT CGC AAC ACC
 46
 Met Thr Gly Ser Thr Ile Ala Pro Thr Thr Asp Tyr Arg Asn Thr
 1 5 10 15

ACT GCT ACC GGA CTA ACA TCT GCC CTA AAT TTA CCC CAA GTT CAT GCC
 94
 Thr Ala Thr Gly Leu Thr Ser Ala Leu Asn Leu Pro Gln Val His Ala
 20 25 30

TTT GTC AAT GAC TGG GCG AGC TTG GAC ATG TGG TGG TTT TCC ATA GCG
 142
 Phe Val Asn Asp Trp Ala Ser Leu Asp Met Trp Trp Phe Ser Ile Ala
 35 40 45

CTT ATG TTT GTT TGC CTT ATT ATT ATG TGG CTT ATT TGT TGC CTA AAG
 190
 Leu Met Phe Val Cys Leu Ile Ile Met Trp Leu Ile Cys Cys Leu Lys
 50 55 60

CGC AGA CGC GCC AGA CCC CCC ATC TAT AGG CCT ATC ATT GTG CTC AAC
 238
 Arg Arg Arg Ala Arg Pro Pro Ile Tyr Arg Pro Ile Ile Val Leu Asn
 65 70 75

CCA CAC AAT GAA AAA ATT CAT AGA TTG GAC GGT CTG AAA CCA TGT TCT
 286
 Pro His Asn Glu Lys Ile His Arg Leu Asp Gly Leu Lys Pro Cys Ser
 80 85 90 95

CTT CTT TTA CAG TAT GAT TAA
 307
 Leu Leu Leu Gln Tyr Asp
 100

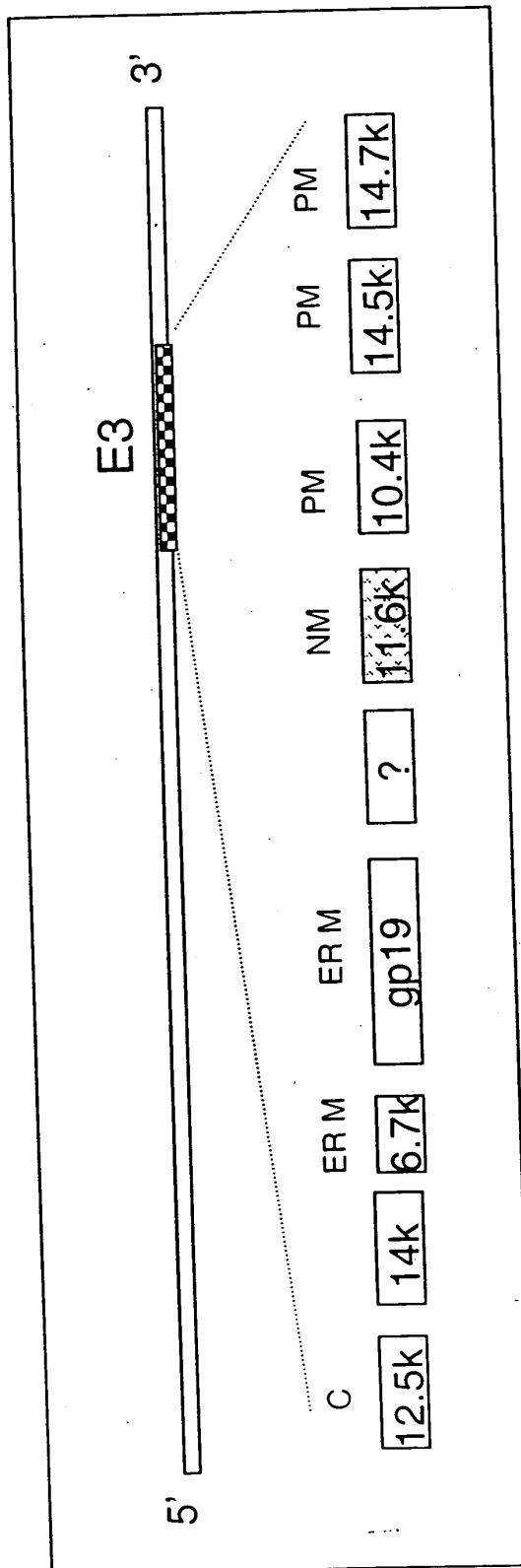
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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Figure 13



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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CV802
 CV882
 CV884

Virus Yield of CV884

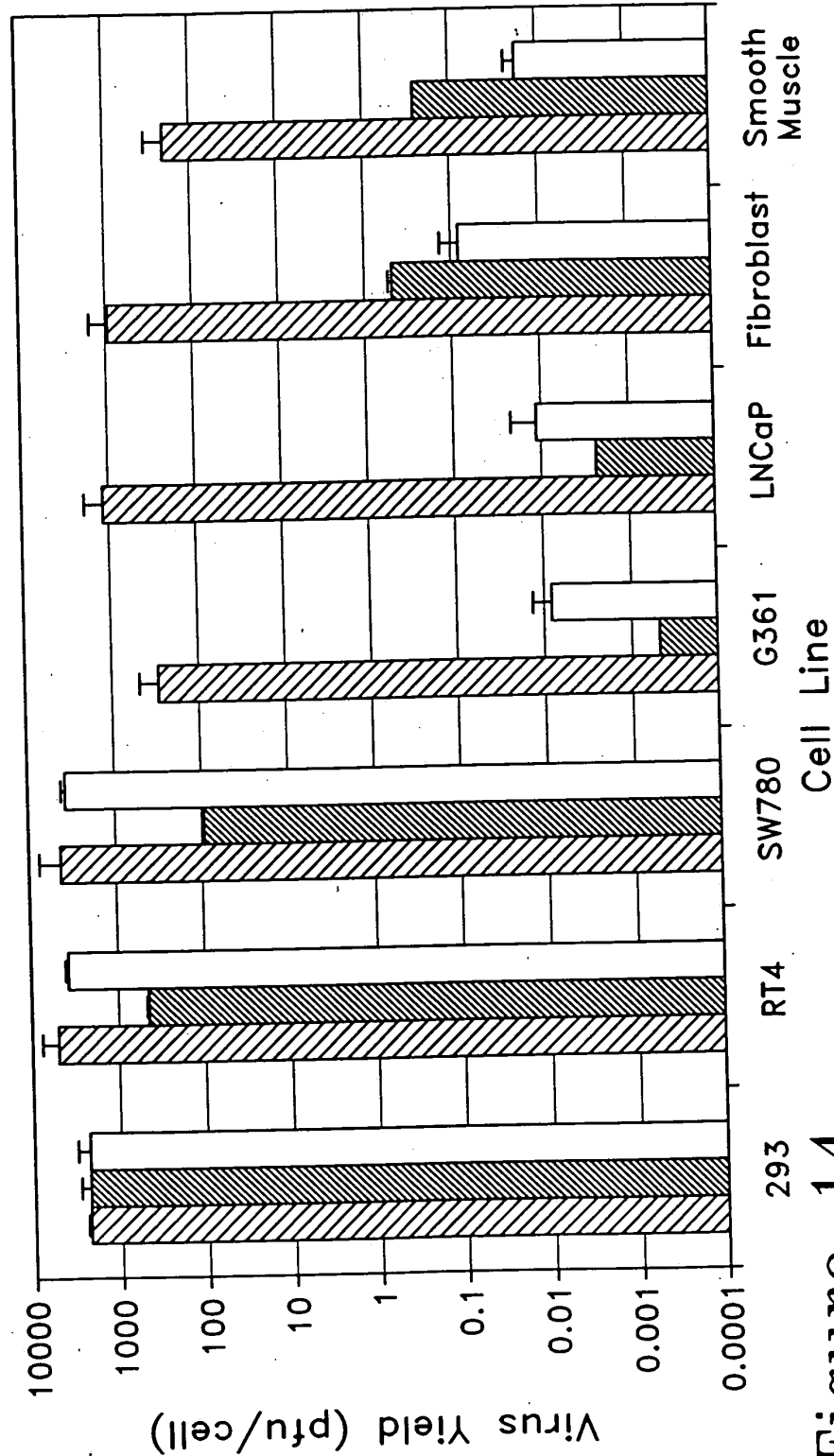


Figure 14